

Patent Claims

1. A connecting element (11, 21, 41, 51) for a mechanical and electrically conductive connection
5 having an electrical conductor (12, 13), which has a cutout in its outer contour in which at least one spreading element (14, 15, 16, 17, 23, 24, 44, 45) of the connecting element (11, 21, 41, 51) can be inserted,
10 characterized in that
the at least one spreading element can be actuated by means of an operating element (18, 26, 47, 48, 56, 57) in order to brace it in the cutout.
- 15 2. The connecting element (11, 21, 41, 51) as claimed in claim 1,
characterized in that
the at least one spreading element (14, 15, 16, 17, 23, 24, 44, 45) can be braced by means of a bracing
20 movement which is directed parallel to the direction of its insertion in the cutout.
3. The connecting element (11, 21, 41, 51) as claimed in claim 1,
25 characterized in that
the at least one spreading element (14, 15, 16, 17, 23, 24, 44, 45) can be braced by means of a bracing movement which is directed perpendicular to the direction of its insertion in the cutout.
- 30 4. The connecting element (11, 21, 41, 51) as claimed in one of claims 1 to 3,
characterized in that
the bracing of the at least one spreading element (23, 24, 44, 45) can be brought about by faces which can be
35 moved relative to one another and are arranged in relation to one another in the form of a wedge in

cross section.

5. The connecting element (11, 21, 41, 51) as claimed in claim 4,
5 characterized in that
the faces are conical faces (23, 24, 44, 45).
6. The connecting element (11, 21, 41, 51) as claimed in one of claims 1 to 5,
10 characterized in that
the connecting element (11, 21, 41, 51) has at least one first and at least one second spreading element (22, 23), which each have an associated first and second electrical conductor (13, 14).
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7. The connecting element (11, 21, 41, 51) as claimed in one of claims 1 to 6,
characterized in that
a mounting apparatus for the electrical conductor (12, 20 13) is arranged on the connecting element (11, 21, 41, 51).
51).
8. The connecting element (11, 21, 41, 51) as claimed in one of claims 1 to 7,
25 characterized in that
the electrical conductor (12, 13) is the inner conductor of a compressed gas-insulated tubular conductor.
- 30 9. A conductor arrangement having the connecting element (11, 21, 41, 51) as claimed in one of claims 1 to 8 and having an electrical conductor (12, 13),
characterized in that
the electrical conductor is an elongate electrical
35 conductor (12, 13), and the cutout is arranged

on one of its end faces.

10. A conductor arrangement having the connecting
element (11, 21, 41, 51) as claimed in one of claims 1
5 to 8 and having an electrical conductor,
characterized in that
the electrical conductor (12, 13) is a tube.